

SEQUENCE LISTING



<110> BARCLAY, A. Neil
BROWN, Marion H.
GORMAN, Daniel M.
LANIER, Lewis L.
WRIGHT, Gavin J.
CHERWINSKI, Holly
PHILLIPS, Joseph H.
HOEK, Robert M.
SEDGWICK, Jonathan D.

<120> OX2 RECEPTOR HOMOLOGS (AS AMENDED)

<130> 140942000900

<140> US 10/009,445

<141> 2001-11-13

<150> PCT US00/12998

<151> 2000-05-11

<150> GB 9925989.7

<151> 1999-11-03

<150> GB 9911123.9

<151> 1999-05-13

<160> 70

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 1574

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: rodent; surmised
Rattus rattus

<220>

<221> CDS

<222> (91)..(1071)

<220>

<221> mat_peptide

<222> (162)..(1071)

<400> 1

agcggaggga tcctggtcat ggtcaccgct gctcccctac ctgtgaagag aaagagcacc 60

gagtgagccg ctgaaaacca gaaaaccgaa atg ctc tgc ttt tgg aga act tct 114
Met Leu Cys Phe Trp Arg Thr Ser
-20

cac gta gca gta ctc ttg atc tgg ggg gtc ttc gcg gct gag tca agt 162
His Val Ala Val Leu Leu Ile Trp Gly Val Phe Ala Ala Glu Ser Ser
-15 -10 -5 -1

tgt cct gat aag aat caa aca atg cag aac aat tca tca act atg aca 210
Cys Pro Asp Lys Asn Gln Thr Met Gln Asn Asn Ser Ser Thr Met Thr

1	5	10	15	
gaa gtt aac act aca gtg ttt gta cag atg ggt aaa aag gct ctg ctc	258			
Glu Val Asn Thr Thr Val Phe Val Gln Met Gly Lys Lys Ala Leu Leu				
20 25 30				
tgc tgc cct tct att tca ctg aca aaa gta ata tta ata aca tgg aca	306			
Cys Cys Pro Ser Ile Ser Leu Thr Lys Val Ile Leu Ile Thr Trp Thr				
35 40 45				
ata acc ctc aga gga cag cct tcc tgc ata ata tcc tac aaa gca gac	354			
Ile Thr Leu Arg Gly Gln Pro Ser Cys Ile Ile Ser Tyr Lys Ala Asp				
50 55 60				
aca agg gag acc cat gaa agc aac tgc tcg gac aga agc atc acc tgg	402			
Thr Arg Glu Thr His Glu Ser Asn Cys Ser Asp Arg Ser Ile Thr Trp				
65 70 75 80				
gcc tcc aca cct gac ctc gct cct gac ctt cag atc agt gca gtg gcc	450			
Ala Ser Thr Pro Asp Leu Ala Pro Asp Leu Gln Ile Ser Ala Val Ala				
85 90 95				
ctc cag cat gaa ggg cgt tac tca tgt gat ata gca gta cct gac ggg	498			
Leu Gln His Glu Gly Arg Tyr Ser Cys Asp Ile Ala Val Pro Asp Gly				
100 105 110				
aat ttc caa aac atc tat gac ctc caa gtg ctg gtg ccc cct gaa gta	546			
Asn Phe Gln Asn Ile Tyr Asp Leu Gln Val Leu Val Pro Pro Glu Val				
115 120 125				
acc cac ttt cca ggg gaa aat aga act gca gtt tgt gag gcg att gca	594			
Thr His Phe Pro Gly Glu Asn Arg Thr Ala Val Cys Glu Ala Ile Ala				
130 135 140				
ggc aaa cct gct gcg cag atc tct tgg acg cca gat ggg gat tgt gtc	642			
Gly Lys Pro Ala Ala Gln Ile Ser Trp Thr Pro Asp Gly Asp Cys Val				
145 150 155 160				
gct aag aat gaa tca cac agc aat ggc acc gtg act gtc cgg agc aca	690			
Ala Lys Asn Glu Ser His Ser Asn Gly Thr Val Thr Val Arg Ser Thr				
165 170 175				
tgc cac tgg gag cag agc cac gtg tct gtc gtg ttc tgt gtt gtc tct	738			
Cys His Trp Glu Gln Ser His Val Ser Val Val Phe Cys Val Val Ser				
180 185 190				
cac ttg aca act ggt aac cag tct ctg tct ata gaa ctg ggt aga ggg	786			
His Leu Thr Thr Gly Asn Gln Ser Leu Ser Ile Glu Leu Gly Arg Gly				
195 200 205				
ggt gac caa tta tta gga tca tac att caa tac atc atc cca tct att	834			
Gly Asp Gln Leu Leu Gly Ser Tyr Ile Gln Tyr Ile Ile Pro Ser Ile				
210 215 220				
att att ttg atc atc ata gga tgc att tgt ctt ttg aaa atc agt ggc	882			
Ile Ile Leu Ile Ile Ile Gly Cys Ile Cys Leu Leu Lys Ile Ser Gly				
225 230 235 240				
tgc aga aaa tgt aaa ttg cca aaa tcg gga gct act cca gat att gag	930			
Cys Arg Lys Cys Lys Leu Pro Lys Ser Gly Ala Thr Pro Asp Ile Glu				
245 250 255				
gag gat gaa atg cag ccg tat gct agc tac aca gag aag agc aat cca	978			
Glu Asp Glu Met Gln Pro Tyr Ala Ser Tyr Thr Glu Lys Ser Asn Pro				

260 265 270
 ctc tat gat act gtg acc acg acg gag gca cac cca gcg tca caa ggc 1026
 Leu Tyr Asp Thr Val Thr Thr Thr Glu Ala His Pro Ala Ser Gln Gly
 275 280 285

 aaa gtc aat ggc aca gac tgt ctt act ttg tca gcc atg gga atc 1071
 Lys Val Asn Gly Thr Asp Cys Leu Thr Leu Ser Ala Met Gly Ile
 290 295 300

 tagaaccaag gaaaagaagt caagagacat cataattact gcttttcttt ctttaaactt 1131
 ctccaatgga gggaaattag ctcttctgaa gttcttagaa agcacaaatg ttctaattgga 1191
 tttgccttta agttcttcta tcattggaag tttggaatct ttgctgctac ctgttaattc 1251
 taggaagaac tgatttaatt attacaaaga aagcacattg ttatggtaaa atatcaaatt 1311
 gtgcaataca atgatgaaaa ctgagtttcc tcaagaaata actgcagaag gaacaatcat 1371
 tactaaagca tttcatgtga gttcttccaa aaaagaaaat ccctgtgtat acgacatgat 1431
 tatggatatgt gtgtgccttt atatgtttgt ttacaaatgt gtatatatgc acacatctga 1491
 ttatcaagac atctctgtca aaaactcact ggcgttccag atttatgaaa gctaataaag 1551
 tgagtattgg agatgttttt ata 1574

<210> 2
 <211> 327
 <212> PRT
 <213> Unknown

<220>
 <223> Description of Unknown Organism: rodent; surmised
 Rattus rattus

<400> 2
 Met Leu Cys Phe Trp Arg Thr Ser His Val Ala Val Leu Leu Ile Trp
 -20 -15 -10

 Gly Val Phe Ala Ala Glu Ser Ser Cys Pro Asp Lys Asn Gln Thr Met
 -5 -1 1 5

 Gln Asn Asn Ser Ser Thr Met Thr Glu Val Asn Thr Thr Val Phe Val
 10 15 20

 Gln Met Gly Lys Lys Ala Leu Leu Cys Cys Pro Ser Ile Ser Leu Thr
 25 30 35 40

 Lys Val Ile Leu Ile Thr Trp Thr Ile Thr Leu Arg Gly Gln Pro Ser
 45 50 55

 Cys Ile Ile Ser Tyr Lys Ala Asp Thr Arg Glu Thr His Glu Ser Asn
 60 65 70

 Cys Ser Asp Arg Ser Ile Thr Trp Ala Ser Thr Pro Asp Leu Ala Pro
 75 80 85

 Asp Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu Gly Arg Tyr Ser
 90 95 100

Cys Asp Ile Ala Val Pro Asp Gly Asn Phe Gln Asn Ile Tyr Asp Leu
 105 110 115 120
 Gln Val Leu Val Pro Pro Glu Val Thr His Phe Pro Gly Glu Asn Arg
 125 130 135
 Thr Ala Val Cys Glu Ala Ile Ala Gly Lys Pro Ala Ala Gln Ile Ser
 140 145 150
 Trp Thr Pro Asp Gly Asp Cys Val Ala Lys Asn Glu Ser His Ser Asn
 155 160 165
 Gly Thr Val Thr Val Arg Ser Thr Cys His Trp Glu Gln Ser His Val
 170 175 180
 Ser Val Val Phe Cys Val Val Ser His Leu Thr Thr Gly Asn Gln Ser
 185 190 195 200
 Leu Ser Ile Glu Leu Gly Arg Gly Gly Asp Gln Leu Leu Gly Ser Tyr
 205 210 215
 Ile Gln Tyr Ile Ile Pro Ser Ile Ile Ile Leu Ile Ile Ile Gly Cys
 220 225 230
 Ile Cys Leu Leu Lys Ile Ser Gly Cys Arg Lys Cys Lys Leu Pro Lys
 235 240 245
 Ser Gly Ala Thr Pro Asp Ile Glu Glu Asp Glu Met Gln Pro Tyr Ala
 250 255 260
 Ser Tyr Thr Glu Lys Ser Asn Pro Leu Tyr Asp Thr Val Thr Thr Thr
 265 270 275 280
 Glu Ala His Pro Ala Ser Gln Gly Lys Val Asn Gly Thr Asp Cys Leu
 285 290 295
 Thr Leu Ser Ala Met Gly Ile
 300

<210> 3
 <211> 1604
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown Organism:primate; surmised
 Homo sapiens

<220>
 <221> CDS
 <222> (217)..(1101)

<220>
 <221> mat_peptide
 <222> (295)..(1101)

<400> 3
 cagagaaaag cttctgttcg tccaagttac taaccaggct aaaccacata gacgtgaagg 60
 aaggggctag aaggaaggga gtgcccact gttgatgggg taagaggatc ctgtactgag 120
 aagttgacca gagagggtct caccatgcgc acagttcctt ctgtaccagt gtggaggaaa 180

agtactgagt	gaagggcaga	aaaagagaaa	acagaa	atg	ctc	tgc	cct	tgg	aga	234
				Met	Leu	Cys	Pro	Trp	Arg	
				-25						
act gct aac cta ggg cta ctg ttg att ttg act atc ttc tta gtg gcc	282									
Thr Ala Asn Leu Gly Leu Leu Leu Ile Leu Thr Ile Phe Leu Val Ala										
-20 -15 -10 -5										
gaa gcg gag ggt gct gct caa cca aac aac tca tta atg ctg caa act	330									
Glu Ala Glu Gly Ala Ala Gln Pro Asn Asn Ser Leu Met Leu Gln Thr										
-1 1 5 10										
agc aag gag aat cat gct tta gct tca agc agt tta tgt atg gat gaa	378									
Ser Lys Glu Asn His Ala Leu Ala Ser Ser Ser Leu Cys Met Asp Glu										
15 20 25										
aaa cag att aca cag aac tac tcg aaa gta ctc gca gaa gtt aac act	426									
Lys Gln Ile Thr Gln Asn Tyr Ser Lys Val Leu Ala Glu Val Asn Thr										
30 35 40										
tca tgg cct gta aag atg gct aca aat gct gtg ctt tgt tgc cct cct	474									
Ser Trp Pro Val Lys Met Ala Thr Asn Ala Val Leu Cys Cys Pro Pro										
45 50 55 60										
atc gca tta aga aat ttg atc ata ata aca tgg gaa ata atc ctg aga	522									
Ile Ala Leu Arg Asn Leu Ile Ile Ile Thr Trp Glu Ile Ile Leu Arg										
65 70 75										
ggc cag cct tcc tgc aca aaa gcc tac aag aaa gaa aca aat gag acc	570									
Gly Gln Pro Ser Cys Thr Lys Ala Tyr Lys Lys Glu Thr Asn Glu Thr										
80 85 90										
aag gaa acc aac tgt act gat gag aga ata acc tgg gtc tcc aga cct	618									
Lys Glu Thr Asn Cys Thr Asp Glu Arg Ile Thr Trp Val Ser Arg Pro										
95 100 105										
gat cag aat tcg gac ctt cag att cgt acc gtg gcc atc act cat gac	666									
Asp Gln Asn Ser Asp Leu Gln Ile Arg Thr Val Ala Ile Thr His Asp										
110 115 120										
ggg tat tac aga tgc ata atg gta aca cct gat ggg aat ttc cat cgt	714									
Gly Tyr Tyr Arg Cys Ile Met Val Thr Pro Asp Gly Asn Phe His Arg										
125 130 135 140										
gga tat cac ctc caa gtg tta gtt aca cct gaa gtg acc ctg ttt caa	762									
Gly Tyr His Leu Gln Val Leu Val Thr Pro Glu Val Thr Leu Phe Gln										
145 150 155										
aac agg aat aga act gca gta tgc aag gca gtt gca ggg aag cca gct	810									
Asn Arg Asn Arg Thr Ala Val Cys Lys Ala Val Ala Gly Lys Pro Ala										
160 165 170										
gcg cat atc tcc tgg atc cca gag ggc gat tgt gcc act aag caa gaa	858									
Ala His Ile Ser Trp Ile Pro Glu Gly Asp Cys Ala Thr Lys Gln Glu										
175 180 185										
tac tgg agc aat ggc aca gtg act gtt aag agt aca tgc cac tgg gag	906									
Tyr Trp Ser Asn Gly Thr Val Thr Val Lys Ser Thr Cys His Trp Glu										
190 195 200										
gtc cac aat gtg tct acc gtg acc tgc cac gtc tcc cat ttg act ggc	954									
Val His Asn Val Ser Thr Val Thr Cys His Val Ser His Leu Thr Gly										
205 210 215 220										

aac aag agt ctg tac ata gag cta ctt cct gtt cca ggt gcc aaa aaa 1002
 Asn Lys Ser Leu Tyr Ile Glu Leu Leu Pro Val Pro Gly Ala Lys Lys
 225 230 235

atc agc aaa att ata tat tcc ata tat cat cct tac tat tat tat tta 1050
 Ile Ser Lys Ile Ile Tyr Ser Ile Tyr His Pro Tyr Tyr Tyr Tyr Leu
 240 245 250

gac cat cgt ggg att cat ttg gtt gtt gaa agt caa tgg ctg cag aaa 1098
 Asp His Arg Gly Ile His Leu Val Val Glu Ser Gln Trp Leu Gln Lys
 255 260 265

ata taaattgaat aaaacagaat ctactccagt tgttgaggag gatgaaatgc 1151
 Ile

agccctatgc cagctacaca gagaagaaca atcctctcta tgatactaca aacaaggtga 1211

aggcatctga ggcattacaa agtgaagttg acacagacct ccatacttta taagttggtg 1271

gactctagta ccaagaaaca acaacaaacg agatacatta taattactgt ctgattttct 1331

tacagttcta gaatgaagac ttatattgaa attaggtttt ccaaggttct tagaagacat 1391

tttaatggat tctcattcat acccttgat aattggaatt tttgattctt agctgctacc 1451

agctagttct ctgaagaact gatgttatta caaagaaaat acatgccccat gaccaaatat 1511

tcaaattgtg caggacagta aataatgaaa accaaatttc ctcaagaaat aactgaagaa 1571

ggagcaagtg tgaacagttt cttgtgtatc ctt 1604

<210> 4
 <211> 295
 <212> PRT
 <213> Unknown

<220>
 <223> Description of Unknown Organism:primate; surmised
 Homo sapiens

<400> 4
 Met Leu Cys Pro Trp Arg Thr Ala Asn Leu Gly Leu Leu Leu Ile Leu
 -25 -20 -15
 Thr Ile Phe Leu Val Ala Glu Ala Glu Gly Ala Ala Gln Pro Asn Asn
 -10 -5 -1 1 5
 Ser Leu Met Leu Gln Thr Ser Lys Glu Asn His Ala Leu Ala Ser Ser
 10 15 20
 Ser Leu Cys Met Asp Glu Lys Gln Ile Thr Gln Asn Tyr Ser Lys Val
 25 30 35
 Leu Ala Glu Val Asn Thr Ser Trp Pro Val Lys Met Ala Thr Asn Ala
 40 45 50
 Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu Ile Ile Ile Thr
 55 60 65 70
 Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr Lys Ala Tyr Lys
 75 80 85
 Lys Glu Thr Asn Glu Thr Lys Glu Thr Asn Cys Thr Asp Glu Arg Ile

90	95	100
Thr Trp Val Ser Arg Pro Asp Gln Asn Ser Asp Leu Gln Ile Arg Thr		
105	110	115
Val Ala Ile Thr His Asp Gly Tyr Tyr Arg Cys Ile Met Val Thr Pro		
120	125	130
Asp Gly Asn Phe His Arg Gly Tyr His Leu Gln Val Leu Val Thr Pro		
135	140	145
Glu Val Thr Leu Phe Gln Asn Arg Asn Arg Thr Ala Val Cys Lys Ala		
155	160	165
Val Ala Gly Lys Pro Ala Ala His Ile Ser Trp Ile Pro Glu Gly Asp		
170	175	180
Cys Ala Thr Lys Gln Glu Tyr Trp Ser Asn Gly Thr Val Thr Val Lys		
185	190	195
Ser Thr Cys His Trp Glu Val His Asn Val Ser Thr Val Thr Cys His		
200	205	210
Val Ser His Leu Thr Gly Asn Lys Ser Leu Tyr Ile Glu Leu Leu Pro		
215	220	225
Val Pro Gly Ala Lys Lys Ile Ser Lys Ile Ile Tyr Ser Ile Tyr His		
235	240	245
Pro Tyr Tyr Tyr Tyr Leu Asp His Arg Gly Ile His Leu Val Val Glu		
250	255	260
Ser Gln Trp Leu Gln Lys Ile		
265		

<210> 5
 <211> 1490
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown Organism: rodent; surmised
 Mus musculus

<220>
 <221> CDS
 <222> (10)..(987)

<220>
 <221> mat_peptide
 <222> (85)..(987)

<400> 5
 aaaaccgaa atg ttt tgc ttt tgg aga act tct gcc cta gca gtg ctc tta 51
 Met Phe Cys Phe Trp Arg Thr Ser Ala Leu Ala Val Leu Leu
 -25 -20 -15

ata tgg ggg gtc ttt gtg gct ggg tca agt tgt act gat aag aat caa 99
 Ile Trp Gly Val Phe Val Ala Gly Ser Ser Cys Thr Asp Lys Asn Gln
 -10 -5 -1 1 5

aca aca cag aac aac agt tca tct cct ctg aca caa gtg aac act aca 147

Thr	Thr	Gln	Asn	Asn	Ser	Ser	Ser	Pro	Leu	Thr	Gln	Val	Asn	Thr	Thr	
				10					15					20		
gtg	tct	gta	cag	ata	ggt	aca	aag	gct	ctg	ctc	tgc	tgc	ttt	tct	att	195
Val	Ser	Val	Gln	Ile	Gly	Thr	Lys	Ala	Leu	Leu	Cys	Cys	Phe	Ser	Ile	
			25					30					35			
cca	ctg	aca	aaa	gca	gta	tta	atc	aca	tgg	ata	ata	aag	ctc	aga	ggc	243
Pro	Leu	Thr	Lys	Ala	Val	Leu	Ile	Thr	Trp	Ile	Ile	Lys	Leu	Arg	Gly	
		40					45					50				
ctg	cca	tcc	tgc	aca	ata	gca	tac	aaa	gta	gat	aca	aag	acc	aat	gaa	291
Leu	Pro	Ser	Cys	Thr	Ile	Ala	Tyr	Lys	Val	Asp	Thr	Lys	Thr	Asn	Glu	
	55					60					65					
acc	agc	tgc	ttg	ggc	agg	aac	atc	acc	tgg	gcc	tcc	aca	cct	gac	cac	339
Thr	Ser	Cys	Leu	Gly	Arg	Asn	Ile	Thr	Trp	Ala	Ser	Thr	Pro	Asp	His	
	70				75				80						85	
agt	cct	gaa	ctt	cag	atc	agt	gca	gtg	acc	ctc	cag	cat	gag	ggg	act	387
Ser	Pro	Glu	Leu	Gln	Ile	Ser	Ala	Val	Thr	Leu	Gln	His	Glu	Gly	Thr	
				90					95					100		
tac	aca	tgt	gag	aca	gta	aca	cct	gaa	ggg	aat	ttt	gaa	aaa	aac	tat	435
Tyr	Thr	Cys	Glu	Thr	Val	Thr	Pro	Glu	Gly	Asn	Phe	Glu	Lys	Asn	Tyr	
			105					110					115			
gac	ctc	caa	gtg	ctg	gtg	ccc	cct	gaa	gta	acc	tac	ttt	cca	gag	aaa	483
Asp	Leu	Gln	Val	Leu	Val	Pro	Pro	Glu	Val	Thr	Tyr	Phe	Pro	Glu	Lys	
		120					125					130				
aac	aga	tct	gca	gtc	tgt	gag	gca	atg	gca	ggc	aag	cct	gct	gca	cag	531
Asn	Arg	Ser	Ala	Val	Cys	Glu	Ala	Met	Ala	Gly	Lys	Pro	Ala	Ala	Gln	
	135					140					145					
atc	tct	tgg	tct	cca	gat	ggg	gac	tgt	gtc	act	acg	agt	gaa	tca	cac	579
Ile	Ser	Trp	Ser	Pro	Asp	Gly	Asp	Cys	Val	Thr	Thr	Ser	Glu	Ser	His	
	150				155					160					165	
agc	aat	ggc	act	gtg	act	gtc	agg	agc	aca	tgc	cac	tgg	gag	cag	aac	627
Ser	Asn	Gly	Thr	Val	Thr	Val	Arg	Ser	Thr	Cys	His	Trp	Glu	Gln	Asn	
				170					175					180		
aat	gtg	tct	gat	gtg	tcc	tgc	att	gtc	tct	cat	ttg	act	ggc	aac	caa	675
Asn	Val	Ser	Asp	Val	Ser	Cys	Ile	Val	Ser	His	Leu	Thr	Gly	Asn	Gln	
			185					190					195			
tct	ctg	tcc	ata	gaa	ctg	agt	aga	ggc	ggc	aac	caa	tca	tta	cga	cca	723
Ser	Leu	Ser	Ile	Glu	Leu	Ser	Arg	Gly	Gly	Asn	Gln	Ser	Leu	Arg	Pro	
		200					205					210				
tat	att	cca	tac	atc	ata	cca	tca	att	atc	att	ttg	atc	atc	ata	gga	771
Tyr	Ile	Pro	Tyr	Ile	Ile	Pro	Ser	Ile	Ile	Ile	Leu	Ile	Ile	Ile	Gly	
	215					220					225					
tgc	att	tgt	ctt	ttg	aaa	atc	agt	ggc	ttc	aga	aaa	tgc	aaa	ttg	cca	819
Cys	Ile	Cys	Leu	Leu	Lys	Ile	Ser	Gly	Phe	Arg	Lys	Cys	Lys	Leu	Pro	
	230				235				240						245	
aaa	tta	gaa	gct	act	tca	gct	att	gag	gag	gat	gaa	atg	cag	cct	tat	867
Lys	Leu	Glu	Ala	Thr	Ser	Ala	Ile	Glu	Glu	Asp	Glu	Met	Gln	Pro	Tyr	
			250					255					260			
gct	agc	tat	aca	gag	aag	agc	aat	cca	ctc	tat	gat	act	gtg	act	aag	915

Ala Ser Tyr Thr Glu Lys Ser Asn Pro Leu Tyr Asp Thr Val Thr Lys
 265 270 275

gtg gag gca ttt cca gta tca caa ggc gaa gtc aat ggc aca gac tgc 963
 Val Glu Ala Phe Pro Val Ser Gln Gly Glu Val Asn Gly Thr Asp Cys
 280 285 290

ctt act ttg tgc gcc att gga atc tagaaccaag aaaaaagaag tcaagagaca 1017
 Leu Thr Leu Ser Ala Ile Gly Ile
 295 300

tcataattac tgctttgctt tctttaaaat tcgacaatgg aaggactact tggaaattag 1077
 ctcttccaaa gctattaaaa agcacaaatg ttctaatagaa attgcattta aattctatca 1137
 ttggaagttt ggaatctctg ctgctacctg ttaatttttag gaagaactga tttaattatt 1197
 acaaagaaag cacatgggta tgggtgaaata tcaagttgtg caataaagta tgatgaaaac 1257
 tgagtttctt caagaaataa ctgcaggagg aacaatcatc actaaagaat ttcattgtgag 1317
 ttcttacaaa aaaattccta tgtatacatg actatgggtat gtgtgtccaa ttacatgttt 1377
 atttacaaat gtgtatatat gcacacattt gcttttcagg acatctcctt gtaaaaaaca 1437
 cactggagtt ttggatttat aaaagcttat aaagtgagca ttggagatat ttt 1490

<210> 6
 <211> 326
 <212> PRT
 <213> Unknown

<220>
 <223> Description of Unknown Organism: rodent; surmised
 Mus musculus

<400> 6
 Met Phe Cys Phe Trp Arg Thr Ser Ala Leu Ala Val Leu Leu Ile Trp
 -25 -20 -15 -10
 Gly Val Phe Val Ala Gly Ser Ser Cys Thr Asp Lys Asn Gln Thr Thr
 -5 -1 1 5
 Gln Asn Asn Ser Ser Ser Pro Leu Thr Gln Val Asn Thr Thr Val Ser
 10 15 20
 Val Gln Ile Gly Thr Lys Ala Leu Leu Cys Cys Phe Ser Ile Pro Leu
 25 30 35
 Thr Lys Ala Val Leu Ile Thr Trp Ile Ile Lys Leu Arg Gly Leu Pro
 40 45 50 55
 Ser Cys Thr Ile Ala Tyr Lys Val Asp Thr Lys Thr Asn Glu Thr Ser
 60 65 70
 Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His Ser Pro
 75 80 85
 Glu Leu Gln Ile Ser Ala Val Thr Leu Gln His Glu Gly Thr Tyr Thr
 90 95 100

Cys Glu Thr Val Thr Pro Glu Gly Asn Phe Glu Lys Asn Tyr Asp Leu
 105 110 115
 Gln Val Leu Val Pro Pro Glu Val Thr Tyr Phe Pro Glu Lys Asn Arg
 120 125 130 135
 Ser Ala Val Cys Glu Ala Met Ala Gly Lys Pro Ala Ala Gln Ile Ser
 140 145 150
 Trp Ser Pro Asp Gly Asp Cys Val Thr Thr Ser Glu Ser His Ser Asn
 155 160 165
 Gly Thr Val Thr Val Arg Ser Thr Cys His Trp Glu Gln Asn Asn Val
 170 175 180
 Ser Asp Val Ser Cys Ile Val Ser His Leu Thr Gly Asn Gln Ser Leu
 185 190 195
 Ser Ile Glu Leu Ser Arg Gly Gly Asn Gln Ser Leu Arg Pro Tyr Ile
 200 205 210 215
 Pro Tyr Ile Ile Pro Ser Ile Ile Ile Leu Ile Ile Ile Gly Cys Ile
 220 225 230
 Cys Leu Leu Lys Ile Ser Gly Phe Arg Lys Cys Lys Leu Pro Lys Leu
 235 240 245
 Glu Ala Thr Ser Ala Ile Glu Glu Asp Glu Met Gln Pro Tyr Ala Ser
 250 255 260
 Tyr Thr Glu Lys Ser Asn Pro Leu Tyr Asp Thr Val Thr Lys Val Glu
 265 270 275
 Ala Phe Pro Val Ser Gln Gly Glu Val Asn Gly Thr Asp Cys Leu Thr
 280 285 290 295
 Leu Ser Ala Ile Gly Ile
 300

<210> 7
 <211> 1010
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown Organism: primate; surmised
 Homo sapiens

<220>
 <221> CDS

<222> (1)..(750)

<400> 7
 atg ggt gga aag cag atg aca cag aac tat tca aca att ttt gca gaa 48
 Met Gly Gly Lys Gln Met Thr Gln Asn Tyr Ser Thr Ile Phe Ala Glu
 1 5 10 15
 ggt aac att tca cag cct gta ctg atg gat ata aat gct gtg ctt tgt 96
 Gly Asn Ile Ser Gln Pro Val Leu Met Asp Ile Asn Ala Val Leu Cys
 20 25 30
 tgc cct cct att gca tta aga aat ttg atc ata ata aca tgg gaa ata 144

Cys	Pro	Pro	Ile	Ala	Leu	Arg	Asn	Leu	Ile	Ile	Ile	Thr	Trp	Glu	Ile		
		35					40					45					
atc	ctg	aga	ggc	cag	cct	tcc	tgc	aca	aaa	gcc	tac	aag	aaa	gaa	aca	192	
Ile	Leu	Arg	Gly	Gln	Pro	Ser	Cys	Thr	Lys	Ala	Tyr	Lys	Lys	Glu	Thr		
	50					55					60						
aat	gag	acc	aag	gaa	acc	aac	tgt	act	gtt	gag	aga	ata	acc	tgg	gtc	240	
Asn	Glu	Thr	Lys	Glu	Thr	Asn	Cys	Thr	Val	Glu	Arg	Ile	Thr	Trp	Val		
65					70					75					80		
tct	aga	cct	gat	cag	aat	tcg	gac	ctt	cag	att	cgt	ccg	gtg	gac	acc	288	
Ser	Arg	Pro	Asp	Gln	Asn	Ser	Asp	Leu	Gln	Ile	Arg	Pro	Val	Asp	Thr		
				85					90					95			
act	cat	gac	ggg	tat	tac	aga	ggc	ata	gtg	gta	aca	cct	gat	ggg	aat	336	
Thr	His	Asp	Gly	Tyr	Tyr	Arg	Gly	Ile	Val	Val	Thr	Pro	Asp	Gly	Asn		
			100					105					110				
ttc	cat	cgt	gga	tat	cac	ctc	caa	gtg	tta	gtt	aca	ccc	gaa	gtg	aac	384	
Phe	His	Arg	Gly	Tyr	His	Leu	Gln	Val	Leu	Val	Thr	Pro	Glu	Val	Asn		
		115					120					125					
cta	ttt	caa	agc	agg	aat	ata	act	gca	gta	tgc	aag	gca	gtt	aca	ggg	432	
Leu	Phe	Gln	Ser	Arg	Asn	Ile	Thr	Ala	Val	Cys	Lys	Ala	Val	Thr	Gly		
	130					135					140						
aag	cca	gct	gcc	cag	atc	tcc	tgg	atc	cca	gag	gga	tct	att	ctt	gcc	480	
Lys	Pro	Ala	Ala	Gln	Ile	Ser	Trp	Ile	Pro	Glu	Gly	Ser	Ile	Leu	Ala		
145					150					155					160		
act	aag	caa	gaa	tac	tgg	ggc	aat	ggc	aca	gtg	acg	gtt	aag	agt	aca	528	
Thr	Lys	Gln	Glu	Tyr	Trp	Gly	Asn	Gly	Thr	Val	Thr	Val	Lys	Ser	Thr		
				165				170						175			
tgc	ccc	tgg	gag	ggc	cac	aag	tct	act	gtg	acc	tgc	cat	gtc	tcc	cat	576	
Cys	Pro	Trp	Glu	Gly	His	Lys	Ser	Thr	Val	Thr	Cys	His	Val	Ser	His		
			180					185					190				
ttg	act	ggc	aac	aag	agt	ctg	tcc	gta	aag	ttg	aat	tca	ggt	ctc	aga	624	
Leu	Thr	Gly	Asn	Lys	Ser	Leu	Ser	Val	Lys	Leu	Asn	Ser	Gly	Leu	Arg		
		195					200					205					
acc	tca	gga	tct	cca	gcg	ttg	tcc	tta	ctg	atc	att	ctt	tat	gtg	aaa	672	
Thr	Ser	Gly	Ser	Pro	Ala	Leu	Ser	Leu	Leu	Ile	Ile	Leu	Tyr	Val	Lys		
		210				215					220						
ctc	tct	ctt	ttt	gtg	gtc	att	ctg	gtc	acc	aca	gga	ttt	gtt	ttc	ttc	720	
Leu	Ser	Leu	Phe	Val	Val	Ile	Leu	Val	Thr	Thr	Gly	Phe	Val	Phe	Phe		
225					230					235					240		
cag	agg	ata	aat	cat	gtc	aga	aaa	gtt	ctt	taaagaagaa	ggaagggtct					770	
Gln	Arg	Ile	Asn	His	Val	Arg	Lys	Val	Leu								
			245					250									
tcttttgctt	ctcctccttg	tctctggact	gcaacattgg	tgagatgagt	gatggtccag											830	
cagtgaactt	gggccatgga	tgatgttaag	gatagaagcc	actcagtagg	atagaagaaa											890	
agaaagatgg	aagaaggatc	ctgggcttga	tgaccatgaa	gtttccctat	aaaccctcaa											950	
ccacctattc	attgacttct	tttgtgttag	agtgaataaa	atthtgttca	tgccagtgtt											1010	

<210> 8
 <211> 250
 <212> PRT
 <213> Unknown

<220>

<223> Description of Unknown Organism: primate; surmised
 Homo sapiens

<400> 8

Met	Gly	Gly	Lys	Gln	Met	Thr	Gln	Asn	Tyr	Ser	Thr	Ile	Phe	Ala	Glu	1	5	10	15
Gly	Asn	Ile	Ser	Gln	Pro	Val	Leu	Met	Asp	Ile	Asn	Ala	Val	Leu	Cys	20	25	30	
Cys	Pro	Pro	Ile	Ala	Leu	Arg	Asn	Leu	Ile	Ile	Ile	Thr	Trp	Glu	Ile	35	40	45	
Ile	Leu	Arg	Gly	Gln	Pro	Ser	Cys	Thr	Lys	Ala	Tyr	Lys	Lys	Glu	Thr	50	55	60	
Asn	Glu	Thr	Lys	Glu	Thr	Asn	Cys	Thr	Val	Glu	Arg	Ile	Thr	Trp	Val	65	70	75	80
Ser	Arg	Pro	Asp	Gln	Asn	Ser	Asp	Leu	Gln	Ile	Arg	Pro	Val	Asp	Thr	85	90	95	
Thr	His	Asp	Gly	Tyr	Tyr	Arg	Gly	Ile	Val	Val	Thr	Pro	Asp	Gly	Asn	100	105	110	
Phe	His	Arg	Gly	Tyr	His	Leu	Gln	Val	Leu	Val	Thr	Pro	Glu	Val	Asn	115	120	125	
Leu	Phe	Gln	Ser	Arg	Asn	Ile	Thr	Ala	Val	Cys	Lys	Ala	Val	Thr	Gly	130	135	140	
Lys	Pro	Ala	Ala	Gln	Ile	Ser	Trp	Ile	Pro	Glu	Gly	Ser	Ile	Leu	Ala	145	150	155	160
Thr	Lys	Gln	Glu	Tyr	Trp	Gly	Asn	Gly	Thr	Val	Thr	Val	Lys	Ser	Thr	165	170	175	
Cys	Pro	Trp	Glu	Gly	His	Lys	Ser	Thr	Val	Thr	Cys	His	Val	Ser	His	180	185	190	
Leu	Thr	Gly	Asn	Lys	Ser	Leu	Ser	Val	Lys	Leu	Asn	Ser	Gly	Leu	Arg	195	200	205	
Thr	Ser	Gly	Ser	Pro	Ala	Leu	Ser	Leu	Leu	Ile	Ile	Leu	Tyr	Val	Lys	210	215	220	
Leu	Ser	Leu	Phe	Val	Val	Ile	Leu	Val	Thr	Thr	Gly	Phe	Val	Phe	Phe	225	230	235	240
Gln	Arg	Ile	Asn	His	Val	Arg	Lys	Val	Leu	245	250								

<210> 9
 <211> 1085
 <212> DNA
 <213> Unknown

<220>

<223> Description of Unknown Organism: rodent; surmised
Mus musculus

<220>

<221> CDS

<222> (1)..(582)

<400> 9

aga ggc cag cct tcc tgc ata atg gcc tac aaa gta gaa aca aag gag	48
Arg Gly Gln Pro Ser Cys Ile Met Ala Tyr Lys Val Glu Thr Lys Glu	
1 5 10 15	
acc aat gaa acc tgc ttg ggc agg aac atc acc tgg gcc tcc aca cct	96
Thr Asn Glu Thr Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro	
20 25 30	
gac cac att cct gac ctt cag atc agt gcg gtg gcc ctc cag cat gag	144
Asp His Ile Pro Asp Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu	
35 40 45	
ggg aat tac tta tgt gag ata aca aca cct gaa ggg aat ttc cat aaa	192
Gly Asn Tyr Leu Cys Glu Ile Thr Thr Pro Glu Gly Asn Phe His Lys	
50 55 60	
gtc tat gac ctc caa gtg ctg gtg ccc cct gaa gta acc tac ttt ctc	240
Val Tyr Asp Leu Gln Val Leu Val Pro Pro Glu Val Thr Tyr Phe Leu	
65 70 75 80	
ggg gaa aat aga act gca gtt tgt gag gca atg gca ggc aag cct gct	288
Gly Glu Asn Arg Thr Ala Val Cys Glu Ala Met Ala Gly Lys Pro Ala	
85 90 95	
gca cag atc tct tgg act cca gat ggg gac tgt gtc act aag agt gag	336
Ala Gln Ile Ser Trp Thr Pro Asp Gly Asp Cys Val Thr Lys Ser Glu	
100 105 110	
tca cac agc aat ggc act gtg act gtc agg agc act tgc cac tgg gag	384
Ser His Ser Asn Gly Thr Val Thr Val Arg Ser Thr Cys His Trp Glu	
115 120 125	
cag aac aat gtg tct gct gtg tcc tgc att gtc tct cat tcg act ggt	432
Gln Asn Asn Val Ser Ala Val Ser Cys Ile Val Ser His Ser Thr Gly	
130 135 140	
aat cag tct ctg tcc ata gaa ctg agt aga ggt acc acc agc acc acc	480
Asn Gln Ser Leu Ser Ile Glu Leu Ser Arg Gly Thr Thr Ser Thr Thr	
145 150 155 160	
cct tcc ttg ctg acc att ctc tac gtg aaa atg gtc ctt ttg ggg att	528
Pro Ser Leu Leu Thr Ile Leu Tyr Val Lys Met Val Leu Leu Gly Ile	
165 170 175	
att ctt ctt aaa gtg gga ttt gct ttc ttc cag aag aga aat gtt acc	576
Ile Leu Leu Lys Val Gly Phe Ala Phe Phe Gln Lys Arg Asn Val Thr	
180 185 190	
aga aca tgaatatcca gatttctgga agctcattag tctgatgaca cataccagaa	632
Arg Thr	
aacagcattt gtaatcaact ttctcattgg aatccagctt acccgtcctt gctgtcttca	692
tgtttgttag acactcacct ccaaattctt aactgagaag ggctcctgtc taaaggaaat	752

atggggacaa attgtggagc atagaccaaa agaaaggcca tccagagact gccccaccta 812
 aggacccatc ccatatacag acaccaaaacc cagacactac tgaagatgct gcgaagcggt 872
 tgctgacagg agcctgttat agctgtctcc tgagaggctc agccagagcc tgacaaatac 932
 ataggtagat gcttgcagcc aacaactgga ctgagcaaaa aatctccatt ggaggagtta 992
 gagaaaggac tgaagagggt gaaagggttt gcagcccat aggaagaaca acaatatcaa 1052
 ccaaccagat ctcccagagc tcccaggac taa 1085

<210> 10
 <211> 194
 <212> PRT
 <213> Unknown

<220>

<223> Description of Unknown Organism: rodent; surmised
 Mus musculus

<400> 10

Arg	Gly	Gln	Pro	Ser	Cys	Ile	Met	Ala	Tyr	Lys	Val	Glu	Thr	Lys	Glu
1				5					10					15	
Thr	Asn	Glu	Thr	Cys	Leu	Gly	Arg	Asn	Ile	Thr	Trp	Ala	Ser	Thr	Pro
			20					25					30		
Asp	His	Ile	Pro	Asp	Leu	Gln	Ile	Ser	Ala	Val	Ala	Leu	Gln	His	Glu
		35					40					45			
Gly	Asn	Tyr	Leu	Cys	Glu	Ile	Thr	Thr	Pro	Glu	Gly	Asn	Phe	His	Lys
	50					55					60				
Val	Tyr	Asp	Leu	Gln	Val	Leu	Val	Pro	Pro	Glu	Val	Thr	Tyr	Phe	Leu
65					70					75					80
Gly	Glu	Asn	Arg	Thr	Ala	Val	Cys	Glu	Ala	Met	Ala	Gly	Lys	Pro	Ala
				85					90					95	
Ala	Gln	Ile	Ser	Trp	Thr	Pro	Asp	Gly	Asp	Cys	Val	Thr	Lys	Ser	Glu
			100					105					110		
Ser	His	Ser	Asn	Gly	Thr	Val	Thr	Val	Arg	Ser	Thr	Cys	His	Trp	Glu
		115					120					125			
Gln	Asn	Asn	Val	Ser	Ala	Val	Ser	Cys	Ile	Val	Ser	His	Ser	Thr	Gly
	130						135					140			
Asn	Gln	Ser	Leu	Ser	Ile	Glu	Leu	Ser	Arg	Gly	Thr	Thr	Ser	Thr	Thr
145					150					155					160
Pro	Ser	Leu	Leu	Thr	Ile	Leu	Tyr	Val	Lys	Met	Val	Leu	Leu	Gly	Ile
				165					170					175	
Ile	Leu	Leu	Lys	Val	Gly	Phe	Ala	Phe	Phe	Gln	Lys	Arg	Asn	Val	Thr
			180					185						190	
Arg	Thr														

<210> 11

<211> 1354
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown Organism: rodent; surmised
 Mus musculus

<220>
 <221> CDS
 <222> (42)..(875)

<220>
 <221> mat_peptide
 <222> (117)..(875)

<400> 11
 ggcacgagtt acgattttgtg cttaacctga ctccactcca g atg cat gct ttg ggg 56
 Met His Ala Leu Gly
 -25

agg act ctg gct ttg atg tta ctc atc ttc atc act att ttg gtg cct 104
 Arg Thr Leu Ala Leu Met Leu Leu Ile Phe Ile Thr Ile Leu Val Pro
 -20 -15 -10 -5

gag tca agt tgt tca gtg aaa gga cgg gag gag atc cca ccg gat gat 152
 Glu Ser Ser Cys Ser Val Lys Gly Arg Glu Glu Ile Pro Pro Asp Asp
 -1 1 5 10

tca ttt cct ttt tca gat gat aat atc ttc cct gat gga gtg ggc gtc 200
 Ser Phe Pro Phe Ser Asp Asp Asn Ile Phe Pro Asp Gly Val Gly Val
 15 20 25

acc atg gag att gag att atc act cca gtg tct gta cag ata ggt atc 248
 Thr Met Glu Ile Glu Ile Ile Thr Pro Val Ser Val Gln Ile Gly Ile
 30 35 40

aag gct cag ctt ttc tgt cat cct agt cca tca aaa gaa gca aca ctt 296
 Lys Ala Gln Leu Phe Cys His Pro Ser Pro Ser Lys Glu Ala Thr Leu
 45 50 55 60

aga ata tgg gaa ata act ccc aga gac tgg cct tcc tgc aga cta ccc 344
 Arg Ile Trp Glu Ile Thr Pro Arg Asp Trp Pro Ser Cys Arg Leu Pro
 65 70 75

tac aga gca gag ttg cag cag atc agt aaa aaa atc tgt act gag aga 392
 Tyr Arg Ala Glu Leu Gln Gln Ile Ser Lys Lys Ile Cys Thr Glu Arg
 80 85 90

gga acc act agg gtc cct gca cat cac cag agt tct gac ctt ccc atc 440
 Gly Thr Thr Arg Val Pro Ala His His Gln Ser Ser Asp Leu Pro Ile
 95 100 105

aaa tca atg gcc ctc aag cat gat ggg cat tac tca tgt cgg ata gaa 488
 Lys Ser Met Ala Leu Lys His Asp Gly His Tyr Ser Cys Arg Ile Glu
 110 115 120

aca aca gat ggg att ttc caa gag aga cat agc atc caa gtg cca ggg 536
 Thr Thr Asp Gly Ile Phe Gln Glu Arg His Ser Ile Gln Val Pro Gly
 125 130 135 140

gaa aat aga act gta gtt tgt gag gca att gca agc aag cct gct atg 584
 Glu Asn Arg Thr Val Val Cys Glu Ala Ile Ala Ser Lys Pro Ala Met
 145 150 155

cag atc ttg tgg act cca gat gag gac tgt gtc act aag agt aaa tca 632
Gln Ile Leu Trp Thr Pro Asp Glu Asp Cys Val Thr Lys Ser Lys Ser
160 165 170

cac aat gac acc atg att gtc agg agc aag tgc cac agg gag aaa aac 680
His Asn Asp Thr Met Ile Val Arg Ser Lys Cys His Arg Glu Lys Asn
175 180 185

aat ggc cac agt gtg ttc tgc ttt atc tcc cat ttg act gat aac tgg 728
Asn Gly His Ser Val Phe Cys Phe Ile Ser His Leu Thr Asp Asn Trp
190 195 200

att ctc tcc atg gaa cag aat cga ggt aca acc agc atc ctg cct tcc 776
Ile Leu Ser Met Glu Gln Asn Arg Gly Thr Thr Ser Ile Leu Pro Ser
205 210 215 220

ttg ctg agc att ctc tat gtg aaa ctg gct gta act gtt ctc atc gta 824
Leu Leu Ser Ile Leu Tyr Val Lys Leu Ala Val Thr Val Leu Ile Val
225 230 235

gga ttt gct ttt ttc cag aag aga aat tat ttc aga gtg cca gaa ggc 872
Gly Phe Ala Phe Phe Gln Lys Arg Asn Tyr Phe Arg Val Pro Glu Gly
240 245 250

tcc tgaggagagt ggtctgtggt taagatgaga tttaccacca tctgaaagac 925
Ser

atcttgtcta ccgcgcagcg tgctgagatt ccgagaagca gccacagaac ctactaggaa 985

gacaaatctg atgtggttgt caatcctttc aatggacctg agtacttcta taaacccgag 1045

tgaggttgtg ctggacccag gagccaggct aggtcatata tgttgatttt tgctgcaaga 1105

cctcatgggtt tatctacaaa tcttaaattc tttcacttcc agtttttaaaa cttttggccc 1165

aagcattttta tccacagcat aacaccttta aagaaactct cccacggaaa ctgctgggttc 1225

catggaatgg aaaattgcaa catgggtttac aagacagtgc aaaccaagca gcattccaag 1285

atatgagctt cagaaaagtta caggaactgt cttgggacga gaaagaagga ttaaatagtt 1345

cccagtccc 1354

<210> 12
<211> 278
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism: rodent; surmised
Mus musculus

<400> 12
Met His Ala Leu Gly Arg Thr Leu Ala Leu Met Leu Leu Ile Phe Ile
-25 -20 -15 -10
Thr Ile Leu Val Pro Glu Ser Ser Cys Ser Val Lys Gly Arg Glu Glu
-5 -1 1 5
Ile Pro Pro Asp Asp Ser Phe Pro Phe Ser Asp Asp Asn Ile Phe Pro
10 15 20

Asp Gly Val Gly Val Thr Met Glu Ile Glu Ile Ile Thr Pro Val Ser
 25 30 35
 Val Gln Ile Gly Ile Lys Ala Gln Leu Phe Cys His Pro Ser Pro Ser
 40 45 50 55
 Lys Glu Ala Thr Leu Arg Ile Trp Glu Ile Thr Pro Arg Asp Trp Pro
 60 65 70
 Ser Cys Arg Leu Pro Tyr Arg Ala Glu Leu Gln Gln Ile Ser Lys Lys
 75 80 85
 Ile Cys Thr Glu Arg Gly Thr Thr Arg Val Pro Ala His His Gln Ser
 90 95 100
 Ser Asp Leu Pro Ile Lys Ser Met Ala Leu Lys His Asp Gly His Tyr
 105 110 115
 Ser Cys Arg Ile Glu Thr Thr Asp Gly Ile Phe Gln Glu Arg His Ser
 120 125 130 135
 Ile Gln Val Pro Gly Glu Asn Arg Thr Val Val Cys Glu Ala Ile Ala
 140 145 150
 Ser Lys Pro Ala Met Gln Ile Leu Trp Thr Pro Asp Glu Asp Cys Val
 155 160 165
 Thr Lys Ser Lys Ser His Asn Asp Thr Met Ile Val Arg Ser Lys Cys
 170 175 180
 His Arg Glu Lys Asn Asn Gly His Ser Val Phe Cys Phe Ile Ser His
 185 190 195
 Leu Thr Asp Asn Trp Ile Leu Ser Met Glu Gln Asn Arg Gly Thr Thr
 200 205 210 215
 Ser Ile Leu Pro Ser Leu Leu Ser Ile Leu Tyr Val Lys Leu Ala Val
 220 225 230
 Thr Val Leu Ile Val Gly Phe Ala Phe Phe Gln Lys Arg Asn Tyr Phe
 235 240 245
 Arg Val Pro Glu Gly Ser
 250

<210> 13
 <211> 981
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown Organism: rodent; surmised
 Rattus rattus

<220>
 <221> misc_feature
 <222> (1)..(981)
 <223> n may be a, c, g, or t

<400> 13
 atgytntgyt tytgmggnac nwsncaygtn gcngtynytny tnathtgggg ngntnttygcn 60
 gcngarwsnw sntgyccnga yaaraaycar acnatgcara ayaaywsnws nacnatgacn 120

gargtnaaya cnaengntntt ygtncaratg ggnaaraarg cnytnyntg ytgyccnwsn 180
 athwsnytna cnaargtnat hytnathacn tggacnatha cnytnmgngg ncarccnwsn 240
 tgyathathw sntayaargc ngayacnmgn garacncayg arwsnaaytg ywsngaymgn 300
 wsnathacnt gggcnwsnac nccngayytn gcncngayy tncarathws ngcngtngcn 360
 ytnarcayg arggnmgnta ywsntgygay athgcngtnc cngayggnaa yttycaraay 420
 athtaygayy tncargtnyt ngtnccncn gargtnacnc ayttccngg ngaraaymgn 480
 acngcngtnt gygargcnat hgcnggnaar ccngcngcnc arathwsntg gacncngay 540
 ggngaytgyg tngcnaaraa ygarwsncay wsnaayggna cngtnacngt nmgnwsnacn 600
 tgycaytggg arcarwsnca ygtnwsngtn gtnttytgyg tngtnwsnca yytnacnacn 660
 ggnaaycarw snytnwsnat hgarytnggn mgngggngng aycarytnyt nggnwsntay 720
 athcartaya thathccnws nathathath ytnathatha thggntgyat htgyytnyt 780
 aarathwsng gntgymgnaa rtgyaarytn ccnaarwsng gngcnacncc ngayathgar 840
 gargaygara tgcarcnta ygcnwsntay acngaraarw snaayccnyt ntaygayacn 900
 gtnacnacna cngargcnca yccngcnwsn carggnaarg tnaayggnac ngaytgyytn 960
 acnytnwsng cnatgggnat h 981

<210> 14
 <211> 885
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown Organism: primate; surmised
 Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(885)
 <223> n may be a, c, g, or t

<400> 14
 atgytntgyc cntggmgnac ngcnaayytn ggnytnytnty tnathytnac nathttyytn 60
 gtngcngarg cngarggngc ngcncarccn aayaaywsny tnatgytnca racnwsnaar 120
 garaaycayg cnytngcnws nwsnwsnytn tgyatggayg araarcarat hacncaraay 180
 taywsnaarg tnytngcnga rgtnaayacn wsntggccng tnaaratggc nacnaaygc 240
 gtnytntgyt gyccnccnat hgcnymgmgn aayytnatha thathacntg ggarathath 300
 ytnmgnggnc arccnwsntg yacnaargcn tayaaraarg aracnaayga racnaargar 360
 acnaaytgya cngaygarmg nathacntgg gtnwsnmgnc cngaycaraa ywsngayytn 420
 carathmgna cngtngcnat hacncaygay ggntaytaym gntgyathat ggtnacncn 480
 gayggnaayt tycaymgngg ntaycayytn cargtnytng tnacncnga rgtnacnytn 540

ttycaraaym gnaaymgnac ngcngtntgy aargcngtng cnggnaarcc ngcngcncay 600
 athwsntgga thccngargg ngaytgygcn acnaarcarg artaytggws naaygggnacn 660
 gtnacngtna arwsnacntg ycaytgggar gtncayaayg tnwsnacngt nacntgygay 720
 gtnwsncayy tnacnggnaa yaarwsnytn tayathgary tnytnccngt nccngngcn 780
 aaraarathw snaarathat htaywsnath taycayccnt aytaytayta yytngaycay 840
 mgnggnathc ayytngtngt ngarwsncar tggytncara arath 885

<210> 15
 <211> 978
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown Organism: rodent; surmised
 Mus musculus

<220>
 <221> misc_feature
 <222> (1)..(978)
 <223> n may be a, c, g, or t

<400> 15
 atgttytgyt tytgmggnac nwsngcnytn gcngtynytny tnathtgggg ngtnntygtg 60
 gcnggnwsnw sntgyacnga yaaraaycar acnacncara ayaaywsnws nwsnccnytn 120
 acncargtna ayacnacngt nwsngtncar athgggnacna argcnytnyt ntgytgytty 180
 wsnathccny tnacnaargc ngtnytnath acntggatha thaarytnmg nggnytnccn 240
 wsntgyacna thgcntayaa rgtngayacn aaracnaayg aracnwsntg yytngngmgn 300
 aayathacnt gggcnwsnac nccngaycay wsncngary tncarathws ngcngtnacn 360
 ytnarcayg arggnacnta yacntgygar acngtnacnc cngarggnaa yttygaraar 420
 aaytaygayy tncargtnyt ngtnccnccn gargtnacnt ayttyccnga raaraaymgn 480
 wsgcngtnt gygargcnat ggnggnaar ccngcngcnc arathwsntg gwsnccngay 540
 ggngaytgyg tnacnacnws ngarwsncay wsnaayggna cngtnacngt nmgnwsnacn 600
 tgycaytggg arcaraayaa ygtnwsngay gtnwsntgya thgtwnsna yytnacnggn 660
 aaycarwsny tnwsnathga rytwnsmgn ggnggnaayc arwsnytnmg nccntayath 720
 ccntayatha thccnwsnat hathathytn athathathg gntgyathtg yytnytnaar 780
 athwsnggnt tymgnaartg yaarytnccn aarytngarg cnacnwsngc nathgargar 840
 gaygaratgc arccntaygc nwsntayacn garaarwsna ayccnytna ygayacngtn 900
 acnaargtng argcnttycc ngtnwsncar ggngargtna ayggnacnga ytgyytnacn 960
 ytnwsngcna thgggnath 978

<210> 16
<211> 750
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: primate; surmised
Homo sapiens

<220>
<221> misc_feature
<222> (1)..(750)
<223> n may be a, c, g, or t

<400> 16
atgggnggna arcaratgac ncaraaytay wsnacnatht tygcngargg naayathwsn 60
carccngtny tnatggayat haaygcngtn ytntgytgyc cnccnathgc nytnmgnaay 120
ytnathatha thacntggga rathathytn mgnggncarc cnwsntgyac naargcntay 180
aaraargara cnaaygarac naargaracn aaytgyacng tngarmgnat hacntgggtn 240
wsnmgnccng aycaraayws ngayytncar athmgncng tngayacnac ncaygayggn 300
taytaymgng gnathgtngt nacncngay ggnaayttyc aymngngnta ycayytncar 360
gtntyngtna cnccngargt naayytntty carwsnmgna ayathacngc ngtntgyaar 420
gcngtnacng gnaarccngc ngncarath wsntggathc cngarggnws nathyngcn 480
acnaarcarg artaytgggg naayggnacn gtnacngtna arwsnacntg yccntgggar 540
ggncayaarw snacngtnac ntgycaaygn wsncaaytna cnggnaayaa rwsnytnwsn 600
gtnaarytna aywsnggnyt nmgnacnwsn ggnwsncng cnytnwsnyt nytnathath 660
ytntaygtna arytnwsnyt nttygtngtn athytngtna cnacnggntt ygtnttytty 720
carmgnatha aycaygtnmg naargtnytn 750

<210> 17
<211> 582
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: rodent; surmised
Mus musculus

<220>
<221> misc_feature
<222> (1)..(582)
<223> n may be a, c, g, or t

<400> 17
mgnggncarc cnwsntgyat hatggcntay aargtngara cnaargarac naaygaracn 60
tgyytnggngm gnaayathac ntgggcnwsn acncngayc ayathccnga yytnicarath 120
wsngcngtny cnytnarca ygarngnaay tayytntgyg arathacnac nccngarggn 180
aayttycaya argtntayga yytncargtn ytngtnccnc cngargtnac ntayttyytn 240

ggngaraaym gnacngcngt ntgygargcn atggcnggna arccngcngc ncarathwsn 300
 tggacnccng ayggngaytg ygtnacnaar wsngarwsnc aywsnaaygg nacngtnacn 360
 gtnmgnewsna cntgycaytg ggarcaraay aaygtnwsng cngtnwsntg yathgtnwsn 420
 caywsnacng gnaaycarws nytnwsnath garytnwsnm gnggnacnac nwsnacnacn 480
 ccnwsnytny tnacnathyt ntaygtnaar atggtnytny tnggnathat hytnytnaar 540
 gtnggnttyg cnttyttyca raarmgnaay gtnacnmgna cn 582

<210> 18
 <211> 834
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown Organism: rodent; surmised
 Mus musculus

<220>
 <221> misc_feature
 <222> (1)..(834)
 <223> n may be a, c, g, or t

<400> 18
 atgcaygcny tnggnmgna nytnngcnytn atgytnytna thttyathac nathytnngtn 60
 ccngarwsnw sntgywsngt naarggnmgn gargarathc cncngayga ywsnttyccn 120
 ttywsngayg ayaayathht yccngayggn gtnggngtna cnatggarat hgarathath 180
 acncngtnw sngtncarat hggathhaar gcncarytnt tytgycaycc nwsnccnwsn 240
 aargargena cnytnmgna htgggarath acncnmngng aytggccnws ntgymgnytn 300
 ccntaymgng cngarytnca rcarathwsn aaraaratht gyacngarmg nggnacnacn 360
 mgngtnccng ncaycayca rwsnwsngay ytnccnatha arwsnatggc nytnaarcay 420
 gayggncayt aywsntgymg nathgaracn acngayggna thttycarga rmgncaysn 480
 athcargtn cngngarara ymgnaengtn gtntgygarg cnathgcnws naarccngcn 540
 atgcarathy tntggacncc ngaygargay tgygtnacna arwsnaarws ncayaaygay 600
 acnatgathg tnmgnwsnaa rtgycaymgn garaaraaya ayggncayws ngtnnttytg 660
 ttyathwsnc ayytnacnga yaaytgath ytnwsnatgg arcaraaymg nggnacnacn 720
 wsnathytn cwnsnynyt nwsnathytn taygtnaary tngcngtnac ngtnytnath 780
 gtnggnttyg cnttyttyca raarmgnaay taytymgng tncngargg nwsn 834

<210> 19
 <211> 1047
 <212> DNA
 <213> Unknown

<220>

<223> Description of Unknown Organism: primate; surmised
Homo sapiens

<220>

<221> CDS

<222> (1)..(1044)

<220>

<221> mat_peptide

<222> (79)..(1044)

<400> 19

atg ctc tgc cct tgg aga act gct aac cta ggg cta ctg ttg att ttg	48
Met Leu Cys Pro Trp Arg Thr Ala Asn Leu Gly Leu Leu Leu Ile Leu	
-25 -20 -15	
act atc ttc tta gtg gcc gaa gcg gag ggt gct gct caa cca aac aac	96
Thr Ile Phe Leu Val Ala Glu Ala Glu Gly Ala Ala Gln Pro Asn Asn	
-10 -5 -1 1 5	
tca tta atg ctg caa act agc aag gag aat cat gct tta gct tca agc	144
Ser Leu Met Leu Gln Thr Ser Lys Glu Asn His Ala Leu Ala Ser Ser	
10 15 20	
agt tta tgt atg gat gaa aaa cag att aca cag aac tac tcg aaa gta	192
Ser Leu Cys Met Asp Glu Lys Gln Ile Thr Gln Asn Tyr Ser Lys Val	
25 30 35	
ctc gca gaa gtt aac act tca tgg cct gta aag atg gct aca aat gct	240
Leu Ala Glu Val Asn Thr Ser Trp Pro Val Lys Met Ala Thr Asn Ala	
40 45 50	
gtg ctt tgt tgc cct cct atc gca tta aga aat ttg atc ata ata aca	288
Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu Ile Ile Ile Thr	
55 60 65 70	
tgg gaa ata atc ctg aga ggc cag cct tcc tgc aca aaa gcc tac agg	336
Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr Lys Ala Tyr Arg	
75 80 85	
aaa gaa aca aat gag acc aag gaa acc aac tgt act gat gag aga ata	384
Lys Glu Thr Asn Glu Thr Lys Glu Thr Asn Cys Thr Asp Glu Arg Ile	
90 95 100	
acc tgg gtc tcc aga cct gat cag aat tcg gac ctt cag att cgt cca	432
Thr Trp Val Ser Arg Pro Asp Gln Asn Ser Asp Leu Gln Ile Arg Pro	
105 110 115	
gtg gcc atc act cat gac ggg tat tac aga tgc ata atg gta aca cct	480
Val Ala Ile Thr His Asp Gly Tyr Tyr Arg Cys Ile Met Val Thr Pro	
120 125 130	
gat ggg aat ttc cat cgt gga tat cac ctc caa gtg tta gtt aca cct	528
Asp Gly Asn Phe His Arg Gly Tyr His Leu Gln Val Leu Val Thr Pro	
135 140 145 150	
gaa gtg acc ctg ttt caa aac agg aat aga act gca gta tgc aag gca	576
Glu Val Thr Leu Phe Gln Asn Arg Asn Arg Thr Ala Val Cys Lys Ala	
155 160 165	
gtt gca ggg aag cca gct gcg cag atc tcc tgg atc cca gag ggc gat	624
Val Ala Gly Lys Pro Ala Ala Gln Ile Ser Trp Ile Pro Glu Gly Asp	
170 175 180	

tgt gcc act aag caa gaa tac tgg agc aat ggc aca gtg act gtt aag	672
Cys Ala Thr Lys Gln Glu Tyr Trp Ser Asn Gly Thr Val Thr Val Lys	
185 190 195	
agt aca tgc cac tgg gag gtc cac aat gtg tct acc gtg acc tgc cac	720
Ser Thr Cys His Trp Glu Val His Asn Val Ser Thr Val Thr Cys His	
200 205 210	
gtc tcc cat ttg act ggc aac aag agt ctg tac ata gag cta ctt cct	768
Val Ser His Leu Thr Gly Asn Lys Ser Leu Tyr Ile Glu Leu Leu Pro	
215 220 225 230	
gtt cca ggt gcc aaa aaa tca gca aaa tta tat att cca tat atc atc	816
Val Pro Gly Ala Lys Lys Ser Ala Lys Leu Tyr Ile Pro Tyr Ile Ile	
235 240 245	
ctt act att att att ttg acc atc gtg gga ttc att tgg ttg ttg aaa	864
Leu Thr Ile Ile Ile Leu Thr Ile Val Gly Phe Ile Trp Leu Leu Lys	
250 255 260	
gtc aat ggc tgc aga aaa tat aaa ttg aat aaa aca gaa tct act cca	912
Val Asn Gly Cys Arg Lys Tyr Lys Leu Asn Lys Thr Glu Ser Thr Pro	
265 270 275	
gtt gtt gag gag gat gaa atg cag ccc tat gcc agc tac aca gag aag	960
Val Val Glu Glu Asp Glu Met Gln Pro Tyr Ala Ser Tyr Thr Glu Lys	
280 285 290	
aac aat cct ctc tat gat act aca aac aag gtg aag gca tct cag gca	1008
Asn Asn Pro Leu Tyr Asp Thr Thr Asn Lys Val Lys Ala Ser Gln Ala	
295 300 305 310	
tta caa agt gaa gtt gac aca gac ctc cat act tta taa	1047
Leu Gln Ser Glu Val Asp Thr Asp Leu His Thr Leu	
315 320	

<210> 20
 <211> 348
 <212> PRT
 <213> Unknown

<220>

<223> Description of Unknown Organism: primate; surmised
 Homo sapiens

<400> 20

Met Leu Cys Pro Trp Arg Thr Ala Asn Leu Gly Leu Leu Leu Ile Leu	
-25 -20 -15	
Thr Ile Phe Leu Val Ala Glu Ala Glu Gly Ala Ala Gln Pro Asn Asn	
-10 -5 -1 1 5	
Ser Leu Met Leu Gln Thr Ser Lys Glu Asn His Ala Leu Ala Ser Ser	
10 15 20	
Ser Leu Cys Met Asp Glu Lys Gln Ile Thr Gln Asn Tyr Ser Lys Val	
25 30 35	
Leu Ala Glu Val Asn Thr Ser Trp Pro Val Lys Met Ala Thr Asn Ala	
40 45 50	
Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu Ile Ile Ile Thr	

55		60		65		70									
Trp	Glu	Ile	Ile	Leu	Arg	Gly	Gln	Pro	Ser	Cys	Thr	Lys	Ala	Tyr	Arg
				75					80					85	
Lys	Glu	Thr	Asn	Glu	Thr	Lys	Glu	Thr	Asn	Cys	Thr	Asp	Glu	Arg	Ile
			90					95					100		
Thr	Trp	Val	Ser	Arg	Pro	Asp	Gln	Asn	Ser	Asp	Leu	Gln	Ile	Arg	Pro
		105					110					115			
Val	Ala	Ile	Thr	His	Asp	Gly	Tyr	Tyr	Arg	Cys	Ile	Met	Val	Thr	Pro
	120					125					130				
Asp	Gly	Asn	Phe	His	Arg	Gly	Tyr	His	Leu	Gln	Val	Leu	Val	Thr	Pro
135					140					145					150
Glu	Val	Thr	Leu	Phe	Gln	Asn	Arg	Asn	Arg	Thr	Ala	Val	Cys	Lys	Ala
				155					160					165	
Val	Ala	Gly	Lys	Pro	Ala	Ala	Gln	Ile	Ser	Trp	Ile	Pro	Glu	Gly	Asp
			170					175					180		
Cys	Ala	Thr	Lys	Gln	Glu	Tyr	Trp	Ser	Asn	Gly	Thr	Val	Thr	Val	Lys
		185					190					195			
Ser	Thr	Cys	His	Trp	Glu	Val	His	Asn	Val	Ser	Thr	Val	Thr	Cys	His
	200					205					210				
Val	Ser	His	Leu	Thr	Gly	Asn	Lys	Ser	Leu	Tyr	Ile	Glu	Leu	Leu	Pro
215					220					225					230
Val	Pro	Gly	Ala	Lys	Lys	Ser	Ala	Lys	Leu	Tyr	Ile	Pro	Tyr	Ile	Ile
			235					240						245	
Leu	Thr	Ile	Ile	Ile	Leu	Thr	Ile	Val	Gly	Phe	Ile	Trp	Leu	Leu	Lys
		250						255					260		
Val	Asn	Gly	Cys	Arg	Lys	Tyr	Lys	Leu	Asn	Lys	Thr	Glu	Ser	Thr	Pro
	265						270					275			
Val	Val	Glu	Glu	Asp	Glu	Met	Gln	Pro	Tyr	Ala	Ser	Tyr	Thr	Glu	Lys
	280					285					290				
Asn	Asn	Pro	Leu	Tyr	Asp	Thr	Thr	Asn	Lys	Val	Lys	Ala	Ser	Gln	Ala
295					300					305					310
Leu	Gln	Ser	Glu	Val	Asp	Thr	Asp	Leu	His	Thr	Leu				
			315						320						

<210> 21
 <211> 1044
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown Organism: primate; surmised
 Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1044)
 <223> n may be a, c, g, or t

<400> 21
atgytntgyc cntggmgnac ngcnaaytn ggnytnytny tnathytnac nathttytn 60
gtngcngarg cngarggngc ngcncarccn aayaaywsny tnatgytnca racnwsnaar 120
garaaycayg cnytnngcnws nwsnwsnytn tgyatggayg araarcarat hacncaraay 180
taywsnaarg tnytnngcnga rgtnaayacn wsntggccng tnaaratggc nacnaaygcn 240
gtnytntgyt gyccnccnat hgcnymgmgn aayytnatha thathacntg ggarathath 300
ytnmgnggnc arccnwsntg yacnaargcn taymgnaarg aracnaayga racnaargar 360
acnaaytgya cngaygarmg nathacntgg gtnwsnmgnc cngaycaraa ywsngayytn 420
carathmgnc cngtngcnat hacncaygay ggntaytaym gntgyathat ggtnacnccn 480
gayggnaayt tycaymgngg ntaycayytn cargtnytn tncnccnga rgtnacnytn 540
ttycaraaym gnaaymgmac ngcngtntgy aargcngtng cnggnaarcc ngcngcnar 600
athwsntgga thccngargg ngaytgygn acnaarcarg artaytggws naayggmacn 660
gtnacngtna arwsnacntg ycaytgggar gtncayaayg tnwsnacngt nacntgyay 720
gtwnscayy tncnggnaa yaarwsnytn tayathgary tnytnccngt nccnggngcn 780
aaraarwsng cnaarynta yathccntay athathytna cnathathat hytnacnath 840
gtnggnttya thtgyytny naargtnaay ggntgymgna artayaaryt naayaaracn 900
garwsnacnc cngtngtna rgargaygar atgcarccnt aygcnsnta yacngaraar 960
aayaayccny tntaygayac nacnaayaar gtnaargcnw sncargcnyt ncarwsngar 1020
gtngayacng ayytnayac nytn 1044

<210> 22
<211> 813
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: rodent; surmised
Mus musculus

<220>
<221> CDS
<222> (1)..(810)

<220>
<221> mat_peptide
<222> (76)..(810)

<400> 22
atg cat gct ctg ggg agg att ccg act ttg act ttg ctg atc ttc atc 48
Met His Ala Leu Gly Arg Ile Pro Thr Leu Thr Leu Leu Ile Phe Ile
-25 -20 -15 -10
aat att ttt gtg tct ggg tca agt tgt act gat gag aat caa aca ata 96
Asn Ile Phe Val Ser Gly Ser Ser Cys Thr Asp Glu Asn Gln Thr Ile
-5 -1 1 5

cag aat gac agt tca tct tct ctg aca caa gtt aac act aca atg tct	144
Gln Asn Asp Ser Ser Ser Ser Leu Thr Gln Val Asn Thr Thr Met Ser	
10 15 20	
gta cag atg gat aaa aag gct ctg ctc tgc tgc ttt tct agt cca ctg	192
Val Gln Met Asp Lys Lys Ala Leu Leu Cys Cys Phe Ser Ser Pro Leu	
25 30 35	
ata aat gca gta tta atc aca tgg ata ata aaa cac aga cac ctg cct	240
Ile Asn Ala Val Leu Ile Thr Trp Ile Ile Lys His Arg His Leu Pro	
40 45 50 55	
tcc tgc aca ata gca tac aac cta gat aaa aag acc aat gaa acc agc	288
Ser Cys Thr Ile Ala Tyr Asn Leu Asp Lys Lys Thr Asn Glu Thr Ser	
60 65 70	
tgc ttg ggc agg aac atc acc tgg gcc tcc aca cct gac cac agt cct	336
Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His Ser Pro	
75 80 85	
gaa ctt cag atc agt gca gtg gcc ctc cag cat gag ggg act tac aca	384
Glu Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu Gly Thr Tyr Thr	
90 95 100	
tgt gag ata gta aca cct gaa ggg aat tta gaa aaa gtc tat gac ctc	432
Cys Glu Ile Val Thr Pro Glu Gly Asn Leu Glu Lys Val Tyr Asp Leu	
105 110 115	
caa gtg ctg gtg ccc cct gag gta acc tac ttt cca ggg aaa aac aga	480
Gln Val Leu Val Pro Pro Glu Val Thr Tyr Phe Pro Gly Lys Asn Arg	
120 125 130 135	
act gca gtc tgt gag gca atg gca ggc aag cct gct gca cag atc tct	528
Thr Ala Val Cys Glu Ala Met Ala Gly Lys Pro Ala Ala Gln Ile Ser	
140 145 150	
tgg act cca gat ggg gac tgt gtc act aag agt gag tca cac agc aat	576
Trp Thr Pro Asp Gly Asp Cys Val Thr Lys Ser Glu Ser His Ser Asn	
155 160 165	
ggc act gtg act gtc agg agc acg tgc cac tgg gag cag aac aat gtg	624
Gly Thr Val Thr Val Arg Ser Thr Cys His Trp Glu Gln Asn Asn Val	
170 175 180	
tct gtt gtg tcc tgc tta gtc tct cat tgc act ggt aat cag tct ctg	672
Ser Val Val Ser Cys Leu Val Ser His Ser Thr Gly Asn Gln Ser Leu	
185 190 195	
tcc ata gaa ctg agt caa ggt aca atg acc acc ccc cgt tcc ttg ctg	720
Ser Ile Glu Leu Ser Gln Gly Thr Met Thr Thr Pro Arg Ser Leu Leu	
200 205 210 215	
acc att ctc tat gtg aaa atg gcc ctt ttg gtg att att ctt ctt aac	768
Thr Ile Leu Tyr Val Lys Met Ala Leu Leu Val Ile Ile Leu Leu Asn	
220 225 230	
gta gga ttt gct ttc ttc cag aag aga aat ttt gcc aga aca tga	813
Val Gly Phe Ala Phe Phe Gln Lys Arg Asn Phe Ala Arg Thr	
235 240 245	

<210> 23

<211> 270
 <212> PRT
 <213> Unknown

<220>

<223> Description of Unknown Organism: rodent; surmised
 Mus musculus

<400> 23

Met His Ala Leu Gly Arg Ile Pro Thr Leu Thr Leu Leu Ile Phe Ile
 -25 -20 -15 -10

Asn Ile Phe Val Ser Gly Ser Ser Cys Thr Asp Glu Asn Gln Thr Ile
 -5 -1 1 5

Gln Asn Asp Ser Ser Ser Ser Leu Thr Gln Val Asn Thr Thr Met Ser
 10 15 20

Val Gln Met Asp Lys Lys Ala Leu Leu Cys Cys Phe Ser Ser Pro Leu
 25 30 35

Ile Asn Ala Val Leu Ile Thr Trp Ile Ile Lys His Arg His Leu Pro
 40 45 50 55

Ser Cys Thr Ile Ala Tyr Asn Leu Asp Lys Lys Thr Asn Glu Thr Ser
 60 65 70

Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His Ser Pro
 75 80 85

Glu Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu Gly Thr Tyr Thr
 90 95 100

Cys Glu Ile Val Thr Pro Glu Gly Asn Leu Glu Lys Val Tyr Asp Leu
 105 110 115

Gln Val Leu Val Pro Pro Glu Val Thr Tyr Phe Pro Gly Lys Asn Arg
 120 125 130 135

Thr Ala Val Cys Glu Ala Met Ala Gly Lys Pro Ala Ala Gln Ile Ser
 140 145 150

Trp Thr Pro Asp Gly Asp Cys Val Thr Lys Ser Glu Ser His Ser Asn
 155 160 165

Gly Thr Val Thr Val Arg Ser Thr Cys His Trp Glu Gln Asn Asn Val
 170 175 180

Ser Val Val Ser Cys Leu Val Ser His Ser Thr Gly Asn Gln Ser Leu
 185 190 195

Ser Ile Glu Leu Ser Gln Gly Thr Met Thr Thr Pro Arg Ser Leu Leu
 200 205 210 215

Thr Ile Leu Tyr Val Lys Met Ala Leu Leu Val Ile Ile Leu Leu Asn
 220 225 230

Val Gly Phe Ala Phe Phe Gln Lys Arg Asn Phe Ala Arg Thr
 235 240 245

<210> 24
 <211> 810
 <212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: rodent; surmised
Mus musculus

<220>

<221> misc_feature

<222> (1)..(810)

<223> n may be a, c, g, or t

<400> 24

```
atgcaygcny tnggnmgnat hccnacnytn acnytnyttna thttyathaa yathttygtn 60
wsnggnwsnw sntgyacnga ygaraaycar acnathcara aygaywsnws nwsnwsnytn 120
acncargtna ayacnacnat gwsngtnear atggayaara argcnytnyt ntgytgytty 180
wsnwsnccny tnathaaygc ngtnytnath acntggatha thaarcaymg ncayytnccn 240
wsntgyacna thgcntayaa yytngayaar aaracnaayg aracnwsntg yytnggnmgn 300
aayathacnt gggcnwsnac nccngaycay wsncngary tncarathws ngcngtngcn 360
ytncarcayg arggnacnta yacntgygar athgtnacnc cngarggnaa yytngaraar 420
gtntaygayy tncargtnyt ngtnccnccn gargtnacnt ayttyccngg naaraaymgn 480
acngcngtnt gygargcnat ggcnggnaar ccngcngcnc arathwsntg gacnccngay 540
ggngaytgyg tnacnaarws ngarwsncay wsnaayggna cngtnacngt nmgnwsnacn 600
tgycaytggg arcaraayaa ygtnwsngtn gtnwsntggy tngtnwsnca ywsnacnggn 660
aaycarwsny tnwsnathga rytwnsncar ggnacnatga cnacnccnmg nwsnytnytn 720
acnathytn aygtnaarat ggcnytnytn gtnathathy tnytnaaygt nggnttygcn 780
ttyttycara armgnaaytt ygcnmgnacn 810
```

<210> 25

<211> 34

<212> PRT

<213> Mus musculus

<400> 25

```
Met Phe Cys Phe Trp Arg Thr Ser Ala Leu Ala Val Leu Leu Ile Trp
 1           5           10           15
Gly Val Phe Val Ala Gly Ser Ser Cys Thr Asp Lys Asn Gln Thr Thr
          20           25           30
Gln Asn
```

<210> 26

<211> 34

<212> PRT

<213> Rattus rattus

<400> 26

```
Met Leu Cys Phe Trp Arg Thr Ser His Val Ala Val Leu Leu Ile Trp
 1           5           10           15
Gly Val Phe Ala Ala Glu Ser Ser Cys Pro Asp Lys Asn Gln Thr Met
```

Gln Asn 20 . 25 30

<210> 27
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 27
 Met Leu Cys Pro Trp Arg Thr Ala Asn Leu Gly Leu Leu Leu Ile Leu
 1 5 10 15
 Thr Ile Phe Leu Val Ala Glu Ala Glu Gly Ala Ala Gln Pro Asn Asn
 20 25 30
 Ser Leu Met Leu Gln Thr Ser Lys Glu Asn His Ala Leu Ala Ser Ser
 35 40 45
 Ser Leu Cys Met Asp Glu Lys Gln Ile Thr Gln Asn
 50 55 60

<210> 28
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 28
 Met Gly Gly Lys Gln Met Thr Gln Asn
 1 5

<210> 29
 <211> 59
 <212> PRT
 <213> Mus musculus

<400> 29
 Asn Ser Ser Ser Pro Leu Thr Gln Val Asn Thr Thr Val Ser Val Gln
 1 5 10 15
 Ile Gly Thr Lys Ala Leu Leu Cys Cys Phe Ser Ile Pro Leu Thr Lys
 20 25 30
 Ala Val Leu Ile Thr Trp Ile Ile Lys Leu Arg Gly Leu Pro Ser Cys
 35 40 45
 Thr Ile Ala Tyr Lys Val Asp Thr Lys Thr Asn
 50 55

<210> 30
 <211> 59
 <212> PRT
 <213> Rattus rattus

<400> 30
 Asn Ser Ser Thr Met Thr Glu Val Asn Thr Thr Val Phe Val Gln Met
 1 5 10 15
 Gly Lys Lys Ala Leu Leu Cys Cys Pro Ser Ile Ser Leu Thr Lys Val
 20 25 30
 Ile Leu Ile Thr Trp Thr Ile Thr Leu Arg Gly Gln Pro Ser Cys Ile
 35 40 45
 Ile Ser Tyr Lys Ala Asp Thr Arg Glu Thr His
 50 55

<210> 31

<211> 18
 <212> PRT
 <213> Homo sapiens

 <400> 31
 Arg Gly Gln Pro Ser Cys Ile Met Ala Tyr Lys Val Glu Thr Lys Glu
 1 5 10 15
 Thr Asn

 <210> 32
 <211> 59
 <212> PRT
 <213> Homo sapiens

 <400> 32
 Tyr Ser Lys Val Leu Ala Glu Val Asn Thr Ser Trp Pro Val Lys Met
 1 5 10 15
 Ala Thr Asn Ala Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu
 20 25 30
 Ile Ile Ile Thr Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr
 35 40 45
 Lys Ala Tyr Lys Lys Glu Thr Asn Glu Thr Lys
 50 55

 <210> 33
 <211> 59
 <212> PRT
 <213> Homo sapiens

 <400> 33
 Tyr Ser Thr Ile Phe Ala Glu Gly Asn Ile Ser Gln Pro Val Leu Met
 1 5 10 15
 Asp Ile Asn Ala Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn Leu
 20 25 30
 Ile Ile Ile Thr Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys Thr
 35 40 45
 Lys Ala Tyr Lys Lys Glu Thr Asn Glu Thr Lys
 50 55

 <210> 34
 <211> 60
 <212> PRT
 <213> Mus musculus

 <400> 34
 Glu Thr Ser Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp
 1 5 10 15
 His Ser Pro Glu Leu Gln Ile Ser Ala Val Thr Leu Gln His Glu Gly
 20 25 30
 Thr Tyr Thr Cys Glu Thr Val Thr Pro Glu Gly Asn Phe Glu Lys Asn
 35 40 45
 Tyr Asp Leu Gln Val Leu Val Pro Pro Glu Val Thr
 50 55 60

 <210> 35
 <211> 60
 <212> PRT
 <213> Rattus rattus

<400> 35
 Glu Ser Asn Cys Ser Asp Arg Ser Ile Thr Trp Ala Ser Thr Pro Asp
 1 5 10 15
 Leu Ala Pro Asp Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu Gly
 20 25 30
 Arg Tyr Ser Cys Asp Ile Ala Val Pro Asp Gly Asn Phe Gln Asn Ile
 35 40 45
 Tyr Asp Leu Gln Val Leu Val Pro Pro Glu Val Thr
 50 55 60

<210> 36
 <211> 59
 <212> PRT
 <213> Mus musculus

<400> 36
 Glu Thr Cys Leu Gly Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His
 1 5 10 15
 Ile Pro Asp Leu Gln Ile Ser Ala Val Ala Leu Gln His Glu Gly Asn
 20 25 30
 Tyr Leu Cys Glu Ile Thr Thr Pro Glu Gly Asn Phe His Lys Val Tyr
 35 40 45
 Asp Leu Gln Val Leu Val Pro Pro Glu Val Thr
 50 55

<210> 37
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 37
 Glu Thr Asn Cys Thr Asp Glu Arg Ile Thr Trp Val Ser Arg Pro Asp
 1 5 10 15
 Gln Asn Ser Asp Leu Gln Ile Arg Thr Val Ala Ile Thr His Asp Gly
 20 25 30
 Tyr Tyr Arg Cys Ile Met Val Thr Pro Asp Gly Asn Phe His Arg Gly
 35 40 45
 Tyr His Leu Gln Val Leu Val Thr Pro Glu Val Thr
 50 55 60

<210> 38
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 38
 Glu Thr Asn Cys Thr Val Glu Arg Ile Thr Trp Val Ser Arg Pro Asp
 1 5 10 15
 Gln Asn Ser Asp Leu Gln Ile Arg Pro Val Asp Thr Thr His Asp Gly
 20 25 30
 Tyr Tyr Arg Gly Ile Val Val Thr Pro Asp Gly Asn Phe His Arg Gly
 35 40 45
 Tyr His Leu Gln Val Leu Val Thr Pro Glu Val Asn
 50 55 60

<210> 39
 <211> 59
 <212> PRT
 <213> Mus musculus

<400> 39
Tyr Phe Pro Glu Lys Asn Arg Ser Ala Val Cys Glu Ala Met Ala Gly
1 5 10 15
Lys Pro Ala Ala Gln Ile Ser Trp Ser Pro Asp Gly Asp Cys Val Thr
20 25 30
Thr Ser Glu Ser His Ser Asn Gly Thr Val Thr Val Arg Ser Thr Cys
35 40 45
His Trp Glu Gln Asn Asn Val Ser Asp Val Ser
50 55

<210> 40
<211> 59
<212> PRT
<213> Rattus rattus

<400> 40
His Phe Pro Gly Glu Asn Arg Thr Ala Val Cys Glu Ala Ile Ala Gly
1 5 10 15
Lys Pro Ala Ala Gln Ile Ser Trp Thr Pro Asp Gly Asp Cys Val Ala
20 25 30
Lys Asn Glu Ser His Ser Asn Gly Thr Val Thr Val Arg Ser Thr Cys
35 40 45
His Trp Glu Gln Ser His Val Ser Val Val Phe
50 55

<210> 41
<211> 59
<212> PRT
<213> Mus musculus

<400> 41
Tyr Phe Leu Gly Glu Asn Arg Thr Ala Val Cys Glu Ala Met Ala Gly
1 5 10 15
Lys Pro Ala Ala Gln Ile Ser Trp Thr Pro Asp Gly Asp Cys Val Thr
20 25 30
Lys Ser Glu Ser His Ser Asn Gly Thr Val Thr Val Arg Ser Thr Cys
35 40 45
His Trp Glu Gln Asn Asn Val Ser Ala Val Ser
50 55

<210> 42
<211> 59
<212> PRT
<213> Homo sapiens

<400> 42
Leu Phe Gln Asn Arg Asn Arg Thr Ala Val Cys Lys Ala Val Ala Gly
1 5 10 15
Lys Pro Ala Ala His Ile Ser Trp Ile Pro Glu Gly Asp Cys Ala Thr
20 25 30
Lys Gln Glu Tyr Trp Ser Asn Gly Thr Val Thr Val Lys Ser Thr Cys
35 40 45
His Trp Glu Val His Asn Val Ser Thr Val Thr
50 55

<210> 43
<211> 59
<212> PRT
<213> Homo sapiens

<400> 43
 Leu Phe Gln Ser Arg Asn Ile Thr Ala Val Cys Lys Ala Val Thr Gly
 1 5 10 15
 Lys Pro Ala Ala Gln Ile Ser Trp Ile Pro Glu Gly Ser Ile Leu Ala
 20 25 30
 Thr Lys Gln Glu Tyr Trp Gly Asn Gly Thr Val Thr Val Lys Ser Thr
 35 40 45
 Cys Pro Trp Glu Gly His Lys Ser Thr Val Thr
 50 55

<210> 44
 <211> 59
 <212> PRT
 <213> Mus musculus

<400> 44
 Cys Ile Val Ser His Leu Thr Gly Asn Gln Ser Leu Ser Ile Glu Leu
 1 5 10 15
 Ser Arg Gly Gly Asn Gln Ser Leu Arg Pro Tyr Ile Pro Tyr Ile Ile
 20 25 30
 Pro Ser Ile Ile Ile Leu Ile Ile Ile Gly Cys Ile Cys Leu Leu Lys
 35 40 45
 Ile Ser Gly Phe Arg Lys Cys Lys Leu Pro Lys
 50 55

<210> 45
 <211> 60
 <212> PRT
 <213> Rattus rattus

<400> 45
 Cys Val Val Ser His Leu Thr Thr Gly Asn Gln Ser Leu Ser Ile Glu
 1 5 10 15
 Leu Gly Arg Gly Gly Asp Gln Leu Leu Gly Ser Tyr Ile Gln Tyr Ile
 20 25 30
 Ile Pro Ser Ile Ile Ile Leu Ile Ile Ile Gly Cys Ile Cys Leu Leu
 35 40 45
 Lys Ile Ser Gly Cys Arg Lys Cys Lys Leu Pro Lys
 50 55 60

<210> 46
 <211> 52
 <212> PRT
 <213> Mus musculus

<400> 46
 Cys Ile Val Ser His Ser Thr Gly Asn Gln Ser Leu Ser Ile Glu Leu
 1 5 10 15
 Ser Arg Gly Thr Thr Ser Thr Thr Pro Ser Leu Leu Thr Ile Leu Tyr
 20 25 30
 Val Lys Met Val Leu Leu Gly Ile Ile Leu Leu Lys Val Gly Phe Ala
 35 40 45
 Phe Phe Gln Lys
 50

<210> 47
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 47
 Cys His Val Ser His Leu Thr Gly Asn Lys Ser Leu Tyr Ile Glu Leu
 1 5 10 15
 Leu Pro Val Pro Gly Ala Lys Lys Ile Ser Lys Ile Ile Tyr Ser Ile
 20 25 30
 Tyr His Pro Tyr Tyr Tyr Tyr Leu Asp His Arg Gly Ile His Leu Val
 35 40 45
 Val Glu
 50

<210> 48
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 48
 Cys His Val Ser His Leu Thr Gly Asn Lys Ser Leu Ser Val Lys Leu
 1 5 10 15
 Asn Ser Gly Leu Arg Thr Ser Gly Ser Pro Ala Leu Ser Leu Leu Ile
 20 25 30
 Ile Leu Tyr Val Lys Leu Ser Leu Phe Val Val Ile Leu Val Thr Thr
 35 40 45
 Gly Phe Val Phe Phe Gln Arg
 50 55

<210> 49
 <211> 55
 <212> PRT
 <213> Mus musculus

<400> 49
 Leu Glu Ala Thr Ser Ala Ile Glu Glu Asp Glu Met Gln Pro Tyr Ala
 1 5 10 15
 Ser Tyr Thr Glu Lys Ser Asn Pro Leu Tyr Asp Thr Val Thr Lys Val
 20 25 30
 Glu Ala Phe Pro Val Ser Gln Gly Glu Val Asn Gly Thr Asp Cys Leu
 35 40 45
 Thr Leu Ser Ala Ile Gly Ile
 50 55

<210> 50
 <211> 55
 <212> PRT
 <213> Rattus rattus

<400> 50
 Ser Gly Ala Thr Pro Asp Ile Glu Glu Asp Glu Met Gln Pro Tyr Ala
 1 5 10 15
 Ser Tyr Thr Glu Lys Ser Asn Pro Leu Tyr Asp Thr Val Thr Thr Thr
 20 25 30
 Glu Ala His Pro Ala Ser Gln Gly Lys Val Asn Gly Thr Asp Cys Leu
 35 40 45
 Thr Leu Ser Ala Met Gly Ile
 50 55

<210> 51
 <211> 6
 <212> PRT
 <213> Mus musculus

<400> 51
 Arg Asn Val Thr Arg Thr
 1 5

<210> 52
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 52
 Ser Gln Trp Leu Gln Lys Ile
 1 5

<210> 53
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 53
 Ile Asn His Val Arg Lys Val Leu
 1 5

<210> 54
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 54
 Met Gly Gly Lys Gln Met Thr Gln Asn Tyr Ser Thr Ile Phe Ala Glu
 1 5 10 15
 Gly Asn Ile Ser Gln Pro Val Leu
 20

<210> 55
 <211> 50
 <212> PRT
 <213> Mus musculus

<400> 55
 Met His Ala Leu Gly Arg Ile Pro Thr Leu Thr Leu Leu Ile Phe Ile
 1 5 10 15
 Asn Ile Phe Val Ser Gly Ser Ser Cys Thr Asp Glu Asn Gln Thr Ile
 20 25 30
 Gln Asn Asp Ser Ser Ser Ser Leu Thr Gln Val Asn Thr Thr Met Ser
 35 40 45
 Val Gln
 50

<210> 56
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 56
 Met Asp Ile Asn Ala Val Leu Cys Cys Pro Pro Ile Ala Leu Arg Asn
 1 5 10 15
 Leu Ile Ile Ile Thr Trp Glu Ile Ile Leu Arg Gly Gln Pro Ser Cys
 20 25 30
 Thr Lys Ala Tyr Lys Lys Glu Thr Asn Glu Thr Lys Glu Thr Asn Cys

35 40 45

Thr Val
50

<210> 57
<211> 23
<212> PRT
<213> Mus musculus

<400> 57
Arg Gly Gln Pro Ser Cys Ile Met Ala Tyr Lys Val Glu Thr Lys Glu
1 5 10 15
Thr Asn Glu Thr Cys Leu Gly
20

<210> 58
<211> 49
<212> PRT
<213> Mus musculus

<400> 58
Met Asp Lys Lys Ala Leu Leu Cys Cys Phe Ser Ser Pro Leu Ile Asn
1 5 10 15
Ala Val Leu Ile Thr Trp Ile Ile Lys His Arg His Leu Pro Ser Cys
20 25 30
Thr Ile Ala Tyr Asn Leu Asp Lys Lys Thr Asn Glu Thr Ser Cys Leu
35 40 45
Gly

<210> 59
<211> 50
<212> PRT
<213> Homo sapiens

<400> 59
Glu Arg Ile Thr Trp Val Ser Arg Pro Asp Gln Asn Ser Asp Leu Gln
1 5 10 15
Ile Arg Pro Val Asp Thr Thr His Asp Gly Tyr Tyr Arg Gly Ile Val
20 25 30
Val Thr Pro Asp Gly Asn Phe His Arg Gly Tyr His Leu Gln Val Leu
35 40 45
Val Thr
50

<210> 60
<211> 50
<212> PRT
<213> Mus musculus

<400> 60
Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His Ile Pro Asp Leu Gln
1 5 10 15
Ile Ser Ala Val Ala Leu Gln His Glu Gly Asn Tyr Leu Cys Glu Ile
20 25 30
Thr Thr Pro Glu Gly Asn Phe His Lys Val Tyr Asp Leu Gln Val Leu
35 40 45
Val Pro
50

<210> 61
 <211> 50
 <212> PRT
 <213> Mus musculus

<400> 61
 Arg Asn Ile Thr Trp Ala Ser Thr Pro Asp His Ser Pro Glu Leu Gln
 1 5 10 15
 Ile Ser Ala Val Ala Leu Gln His Glu Gly Thr Tyr Thr Cys Glu Ile
 20 25 30
 Val Thr Pro Glu Gly Asn Leu Glu Lys Val Tyr Asp Leu Gln Val Leu
 35 40 45
 Val Pro
 50

<210> 62
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 62
 Pro Glu Val Asn Leu Phe Gln Ser Arg Asn Ile Thr Ala Val Cys Lys
 1 5 10 15
 Ala Val Thr Gly Lys Pro Ala Ala Gln Ile Ser Trp Ile Pro Glu Gly
 20 25 30
 Ser Ile Leu Ala Thr Lys Gln Glu Tyr Trp Gly Asn Gly Thr Val Thr
 35 40 45
 Val Lys
 50

<210> 63
 <211> 49
 <212> PRT
 <213> Mus musculus

<400> 63
 Pro Glu Val Thr Tyr Phe Leu Gly Glu Asn Arg Thr Ala Val Cys Glu
 1 5 10 15
 Ala Met Ala Gly Lys Pro Ala Ala Gln Ile Ser Trp Thr Pro Asp Gly
 20 25 30
 Asp Cys Val Thr Lys Ser Glu Ser His Ser Asn Gly Thr Val Thr Val
 35 40 45
 Arg

<210> 64
 <211> 49
 <212> PRT
 <213> Mus musculus

<400> 64
 Pro Glu Val Thr Tyr Phe Pro Gly Lys Asn Arg Thr Ala Val Cys Glu
 1 5 10 15
 Ala Met Ala Gly Lys Pro Ala Ala Gln Ile Ser Trp Thr Pro Asp Gly
 20 25 30
 Asp Cys Val Thr Lys Ser Glu Ser His Ser Asn Gly Thr Val Thr Val
 35 40 45
 Arg

<210> 65
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 65
 Ser Thr Cys Pro Trp Glu Gly His Lys Ser Thr Val Thr Cys His Val
 1 5 10 15
 Ser His Leu Thr Gly Asn Lys Ser Leu Ser Val Lys Leu Asn Ser Gly
 20 25 30
 Leu Arg Thr Ser Gly Ser Pro Ala Leu Ser Leu Leu Ile Ile Leu Tyr
 35 40 45
 Val

<210> 66
 <211> 47
 <212> PRT
 <213> Mus musculus

<400> 66
 Ser Thr Cys His Trp Glu Gln Asn Asn Val Ser Ala Val Ser Cys Ile
 1 5 10 15
 Val Ser His Ser Thr Gly Asn Gln Ser Leu Ser Ile Glu Leu Ser Arg
 20 25 30
 Gly Thr Thr Ser Thr Thr Pro Ser Leu Leu Thr Ile Leu Tyr Val
 35 40 45

<210> 67
 <211> 47
 <212> PRT
 <213> Mus musculus

<400> 67
 Ser Thr Cys His Trp Glu Gln Asn Asn Val Ser Val Val Ser Cys Leu
 1 5 10 15
 Val Ser His Ser Thr Gly Asn Gln Ser Leu Ser Ile Glu Leu Ser Gln
 20 25 30
 Gly Thr Met Thr Thr Pro Arg Ser Leu Leu Thr Ile Leu Tyr Val
 35 40 45

<210> 68
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 68
 Lys Leu Ser Leu Phe Val Val Ile Leu Val Thr Thr Gly Phe Val Phe
 1 5 10 15
 Phe Gln Arg Ile Asn His Val Arg Lys Val Leu
 20 25

<210> 69
 <211> 25
 <212> PRT
 <213> Mus musculus

<400> 69
 Lys Met Val Leu Leu Gly Ile Ile Leu Leu Lys Val Gly Phe Ala Phe

1		5		10	15			
Phe	Gln	Lys	Arg	Asn	Val	Thr	Arg	Thr
			20					25

<210> 70

<211> 25

<212> PRT

<213> Mus musculus

<400> 70

Lys	Met	Ala	Leu	Leu	Val	Ile	Ile	Leu	Leu	Asn	Val	Gly	Phe	Ala	Phe
1				5					10						15
Phe	Gln	Lys	Arg	Asn	Phe	Ala	Arg	Thr							
			20					25							